TIME-ON 81

Operating Instructions

Version 1.1

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1. INTRODUCTION

We would like to thank you for selecting the TIME-ON 81 by IROX. You are now the owner of one of the markets highest quality alarm clocks. It is the result of Italian design, Swiss engineering, and German technology and is manufactured in one of the best factories in greater Hong Kong.
The TIME-ON 81 offers true novelties in the alarm clock sector. Among other things this includes the P-NAP® function for short sleeping phases (= Power-Nap), the alarm setting with the aid of a practical knob and a thermometer/hygrometer with a memory function where along with highest and lowest values also the time and date of the measurement can be recorded (the so-called “time stamp”).

Please read the instructions carefully. You will find practical and interesting information that goes beyond the directions in the user’s manual.

2. FUNCTIONS

2.1 LCD DISPLAY

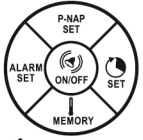
All functions are shown in 3 windows, on a liquid crystal display (LCD).

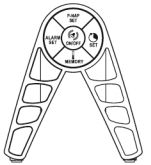
Total segment display of the LCD

	Time window:	- Time display - Signal reception status - Date display (temporary) - For displaying stored thermometer/hygrometer data: Date of recording (temporary)
	Alarm window:	- Alarm setting with alarm status - P-NAP (Power-Nap) time alarm status - For displaying stored thermometer/hygrometer data: Date of recording (temporary) - Indicates when battery is weak
	Thermometer/ hygrometer window	- Thermometer and hygrometer - Comfort zone - Records values min/max (temporary)

"Temporary" means that this information can only be shown on demand and then only appears for a few seconds on the display.

2.2 SIDE BUTTONS





ALARM SET Button
Press: To pull up alarm time on display
Keep pressed for 3 seconds: To set alarm time (with knob)

P-NAP SET Button
Press: To pull up P-NAP time on display
Keep pressed for 3 seconds: To set P-NAP time (with knob)

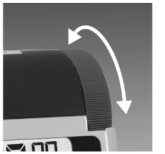
SET Button
Press: To display present date and then weekday
Keep pressed for 3 seconds: To set (time format, time, date, time zone, language for weekday, °C/°F)

ALARM ON/OFF Button
On/off switch for alarm (alarm clock or P-NAP) indicated in alarm window on display.
This button protrudes and can therefore also easily be found in dark surroundings.

MEMORY Button
For fetching data from the thermometer/hygrometer memory

2.3 Other functions

SNOOZE • LIGHT Button
Activates the high quality LED background illumination and, when the alarm sounds, the snooze function of the alarm clock. This button is found at the bottom of the unit (in the foot under the display) and is activated by pressing the alarm clock, from the top, down onto a flat surface.



Knob: Changes the setting values in each setting mode. Can be turned forwards and backwards in order to increase or decrease each value.

BATTERY COMPARTMENT 4 x 1.5 batteries, size UM-3 or “AA”

3. INITIAL OPERATION OF TIME-ON 81

1. Open the battery case and remove all insulating strips. If there are no batteries in the clock, please insert the 4 batteries (UM-3 or "AA" 1.5V) in the correct polarity.

2. Close the battery compartment again.

3. Shortly after activating the batteries all segments will appear on the display for a few seconds and a beep-sound will be heard. Thereafter the radio controlled clock will begin searching for the time signal.

4. OPERATING

Time (hh:mm:ss) is displayed in the top information window. You will also find the symbol for the radio controlled clock's signal reception as well as the indication whether or not a time zone has been set. (ZONE)

4.1 TIME

4.1.1 The radio-controlled clock

- Radio controlled clock is activated

1. After the batteries have been inserted the clock begins its signal search for the time signal transmitter DCF77 from Germany. The reception of the time signal takes about 3-10 minutes. During reception the symbol will blink. If reception is good, with waves if reception is bad without.
2. As soon as the time has been successfully received, time and date will automatically be set and the symbol will be activated.
3. If time reception was not successful the reception symbol is indicated without waves . In such cases you can also manually set the time (see directions in this chapter). The TIME-ON 81 will independently try to receive a signal again during the night.

Good to know

The TIME-ON 81 is equipped with a high quality German time reception module, which makes reception throughout greater Europe possible. This also potentially covers areas that lay in a time zone varying from the Central European Time.

- Radio controlled clock is deactivated

1. If you want to stop the time reception press and hold the button for 8 seconds. It makes sense to turn this off if you live in an area where reception is never possible and the time also cannot be adjusted via the time zone. The will disappear from the display.
2. To reactivate the time reception press and hold the button for 8 seconds. Thereafter the symbol will start to blink, indicating that an active reception is taking place.

Good to know
The radio controlled clock automatically synchronizes itself during the night (1:00, 3:00, 6:00, 9:00). This increases the chance for an undisturbed reception of time and accurate time even in locations where reception is a problem.

4.1.2 Settings

The TIME-ON 81 has a number of setting options. For example time and date, which need only be set if there is no signal reception, but there are also other setting options which allow you to adjust the clock to your personal needs.

- Manual setting of the time and other options

Press and hold the SET button for 3 seconds. In the display the element to be set will start blinking. With the knob you can continue to conduct a setting as long as the element is blinking!

Good to know

The knob function is a very easy way to conduct settings. You can turn the knob in both directions. When adjusting the values turning quickly will lead to changes in bigger steps and turning slowly will, with each “click” you feel, accordingly cause the number to change either to a higher or lower number depending on which direction you turn!

Good to know
The light button can be operated while setting and the background illumination remains activated as long as you either press a button or turn the knob within a period of six seconds. This makes it a lot easier to set the clock in dimmed light or during the night!

Move from setting to setting simply by pressing the SET button.

The setting procedure is as follows:
- Time format: 24 hours or 12 hours (AM/PM) display
- Time setting
- Date setting (Day ---> Month ---> Year)
- ZONE (time zone: Area -2 to +2 hours depending on the current Central European Time. The corresponding number of hours will be either added to or subtracted from the received time. Previously set alarm times will then follow this “ZONE” time)
- Language for weekday display. You may choose between following languages: German (GE), French (FR), Italian (IT), Spanish (SP), Dutch (DU), Swedish (SW), Danish (DA) and English (EN),

- Resetting the measuring unit for temperature (°C<-->°F). Please note: The temperature will blink in the bottom display window!

The setting procedure can not be directly interrupted. Please go through the entire selection of settings with the SET button until after the temperature unit, the day time with running seconds appears again.

☺! **Good to know**
If during the setting mode for one minute no button is pressed, the TIME-ON 81 will automatically jump back to the normal day time. Settings made up to this point will be stored.

☺! **Good to know**
With the ZONE setting you can use the TIME-ON 81 as a radio controlled alarm clock almost everywhere in Europe. Here are a few examples of countries where the ZONE should be set (all other West European countries are ZONE = 0):
-2 hours: Greenland, Azores
-1 hour: Great Britain, Ireland, Portugal, Iceland, Canary Islands
+1 hour: Greece, Finland, Baltic States, Bulgaria, Cyprus, Israel
+2 hours: Russia (Moscow, St. Petersburg)

4.1.3 Display options
In the normal day time display you can show following information for 5 seconds by pressing the SET button:

- Date (D-M-Y)
  ..... SET must be pressed within 5 seconds.....
- Date with weekday (D-M-W)

After 5 seconds the display will automatically return to the day time display. This ensures that you always have the correct time at just a glance.

4.2 ALARM FUNCTION AND P-NAP

In the middle information display the alarm time (hh:mm) or the P-NAP time (hh:mm) is shown.
The active/inactive status is always indicated for both alarm clocks.

4.2.1 Wecker ("ALARM")

Press the ALARM SET button until the bell appears on the display.
ALARM → ALARM

The alarm time which now appears on the display can be changed as follows:

1) Alarm on/off

With this button you turn the alarm on and/or off.
ALARM ← → ALARM

2) Set alarm time

Press and hold the ALARM SET button for approx. 3 seconds until the alarm time starts blinking.

You can now change the alarm time with the knob. As soon as you operate the knob the alarm is activated.

ALARM → ALARM

As soon as you have set the alarm time as desired you can complete the setting in one of the following ways and the alarm time will be indicated in the middle information window without blinking:

- Press the SNOOZE/LIGHT button (for example by placing the TIME-ON 81 back on the nightstand)
- Press the ALARM SET button
- Do not press any buttons or operate the knob for 1 minute

The alarm will sound at the alarm time you have set. The alarm begins gentle and increases in steps becoming louder and faster. The total alarm period is 2 minutes. The LCD illumination is activated during the first seconds of the alarm then the light will blink for the duration of the alarm until it is shut off.

3) Stop alarm.
A sounding alarm can be interrupted in three ways

- During the sounding of the alarm:
  Press the SNOOZE button to start the snooze cycle (9 minutes). After this time the alarm will sound again. You can endlessly repeat the SNOOZE cycle. The symbol blinks during the 9 minutes snooze cycles.

- If the SNOOZE button is not pressed during the 2 minutes the alarm will automatically switch off until the next morning (= 24H OFF)

- During the alarm sounding or during the snooze cycle (=blinking) press the button. After pressing once the alarm is interrupted until the next morning (=24H OFF; stops blinking). If you press the button a second time, the alarm will be completely deactivated as described in the step above. This means it will not sound the following morning!

Good to know
It is possible to use the background illumination when setting the alarm function. This can be very practical in dark bedrooms.
Activate the background illumination before beginning with the setting as described in step 2 above. If you continue to press buttons or turn the knob within 5 seconds the light will remain on.

4.2.2 P-NAP Function

> ☺! **Good to know**
> P-NAP stands for "Power-Nap". This function supports you when taking a Power-Nap.
> Power-Nap is an accepted and by renowned universities tested “short sleep phase”. It has been discovered that persons can increase their performance and learning capabilities and ideally mentally recover by taking short naps of approx. 15 minutes before, during and after intense and several hour long learning and work phases. More on this subject in diverse links on our Website www.irox.com or www.powernap.ch.

Press the P-NAP SET button until the bell appears on the display

P-NAP ⟷ P-NAP

The P-NAP time now appearing on the display is indicated in hours and minutes (hh:mm). The time you have set will begin running backwards to zero after the start. When 00:00 is reached an alarm will sound (for 2 minutes).
To set the P-NAP time, proceed as follows:

1) Start the P-NAP mode

With this button you start the P-NAP or stop it again.

P-NAP ⟷ P-NAP

OFF Time running -> Colon in display blinks

2) Set P-NAP time

The pre-set time in the initial setting is 15 minutes (00:15). You can change this time as you like (00:00 to 23:59), although we do recommend a time between 10-20 minutes.

Press and hold the P-NAP SET button for approx. 3 seconds until the P-NAP time starts blinking.

Now you can use the knob to change the blinking P-NAP time forwards or backwards. With the first turn of the knob the P-NAP function is “pre-activated” and the symbol appears:

P-NAP → P-NAP

As soon as you have set the P-NAP time you desire you can complete the programming in one of the following manners. The P-NAP time will then appear without blinking in the middle information window, recognizable by the blinking colon between the hours and minutes and will begin a countdown to zero:

- Activate the SNOOZE/LIGHT button (for example by placing the TIME-ON 81 back on the nightstand)
- Press the P-NAP SET button
- Do not press any buttons or operate the knob for 1 minute

At the end of the time set the alarm will sound. The alarm begins gentle and increases in steps becoming louder and faster. The total alarm period is 2 minutes.

3) Stop alarm
A sounding alarm can be interrupted in three ways

- During the sounding alarm:
  Press the SNOOZE button to start the snooze cycle (3 minutes for P-NAP!). After this time the alarm will sound again. You can endlessly repeat the snooze cycle. The symbol will blink during the 3 minute snooze cycles

- If the SNOOZE button is not pressed for a period of 2 minutes the P-NAP alarm clock will automatically switch off.

- During the alarm sounding or during the snooze cycle with the blinking symbol press the button (or any one of the side buttons). After the first pressing the P-NAP alarm is immediately switched off.
  If you press the button or the button again the P-NAP alarm clock will be reactivated as described in step 1 above.

4) Operation during an ongoing P-NAP countdown
As soon as the countdown begins, when a P-Nap time is set and the middle light is blinking, each pressing of any button (except the knob) causes an interruption of the countdown. In this case the P-NAP time blinks and can…

- be newly set by using the knob
- with the SNOOZE/LIGHT or the P-NAP SET button the P-NAP alarm clock can continue to count down to zero or the newly set P-NAP time can begin with its countdown

Good to know
It is possible to use the background illumination when setting the alarm function. This can be very practical in dark rooms.
Activate the background illumination before beginning with the setting as described in step 2 above. If you continue to press buttons or turn the knob within 5 seconds the light will remain on.

4.3 TEMPERATURE AND HUMIDITY

The room temperature, measured in °C (or °F) and the relative humidity, measured in % is shown in the bottom information window.

In addition a comfort zone is calculated from the temperature and the humidity and also displayed (moist/WET, comfort/COM, dry/DRY, or "no display" in the event that humidity is ideal, but the temperature is too cold or too warm). At the most one icon will appear corresponding with the comfort zone.

Good to know:
The conditions for the “comfort condition” have been compared with other Irox measuring devices and specifically suited to the bedroom. Relevant measuring information for the comfort condition is:

- Temperature between 19.0°C and 21.9°C (66.2°F – 71.5°F)
- Humidity between 40% and 65% relative humidity

- The relative humidity is over 65% (it is too moist)

- The relative humidity is under 40% (it is too dry)

- The relative humidity is between 40-65%, but the temperature is too high or too low.

The current measuring and comfort zone will be continuously indicated on the display.

Following operations can be conducted in this function:

a)By pressing the "MEMORY" button you can read the min/max memory. The corresponding MIN/MAX value will be indicated, along with the date and time of the record ("time stamp"). Each pressing of the button will lead you in these steps to the next display:

- Minimum (=lowest) temperature "MIN"
- Maximum (=highest) temperature "MAX"
- Minimum (=lowest) rel. humidity "MIN"

- Maximum = (highest) rel. humidity "MAX"

All values shown have been recorded since the last memory reset.

> **Good to know**
> Each value will be displayed for 4 seconds. If you do not press the MEMORY button during this time, the display will automatically return to the normal time display mode. This ensures that you have all of the most important information on the display at all times, for example the current time when the alarm sounds in the morning, and it eliminates the chance of getting stuck in another mode by accidentally pressing the wrong button.

b)Reset the MIN/MAX memory

If you press and hold the MEMORY button for 4 seconds all MIN/MAX values will be reset (during this procedure there will not be a button tone to confirm the resetting)

c)Setting the temperature measuring unit (°C or °F)

The temperature measuring unit can be switched from °C to °F. This procedure is done by manual adjustment (chapter 4.1.2) and is described there.

5. BATTERY REPLACEMENT

BATTERY REPLACEMENT INDICATOR

The batteries function approx. 1 year. Depending on usage and batteries used this may vary and be shorter or longer. To avoid a surprising and unpleasant operating interruption a battery symbol will appear above the alarm display as soon as the batteries are too weak and need to be replaced.

No : Batteries o.k.

active : Replace batteries as soon as possible

blinking : Replace batteries immediately, otherwise the alarm clock may not function correctly.

To replace batteries please follow guidelines in chapter 3 (Initial operation).

Use only new batteries and never mix new with old batteries.

Please remember, used batteries do not belong in domestic trash, they belong in specified containers at collection sites. The environment will be thankful!

6. CARE INSTRUCTIONS

- Do not expose the device to extreme temperatures or direct sunlight over longer periods.
- Avoid blows and shocks of any kind to the device.
- For cleaning use a dry soft cloth that you have moistened with water and a mild cleaning agent. Never use volatile substances such as benzene, thinner, cleansing agents in spray cans etc.
- When the device is not being used store it in a dry area and out of the reach of small children.
- If the device is activated under extreme coldness it may occur that the display becomes illegible. As soon as it is returned to a warm environment the device will function normally.
- Please keep the user's manual and other documents delivered with the device stored carefully so that you can reference them at a later point if necessary.
- Please use only new batteries and never mix old and new batteries.
- Please also remember that old batteries should not be disposed of with household waste but should be handed in at the designated collection centres.
- Important: With all Irox appliances, all disposal fees in Switzerland (vRG; advance recycling fee) and in the EU (WEEE) have been paid.

7. SUPPORT

This device is a new development of Irox Development Technology. All information was made and checked by means of a functioning instrument. It may occur that adjustments and improvements of the device will take place that due to typographical procedures were not able to be listed in this manual. Should you notice deviations which make it difficult for you to operate and use the instrument you may at any time download the latest manual onto your PC free of charge at www.irox.com (please refer to the version number of the manual).

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8. SPECIFICATIONS

Temperature Measurement	
Operating range:	-9.9°C to +60.0°C (23.0°F to 122.0°F)
Temperature resolution:	0.1°C (0.2°F)
Accuracy of temperature measurement:	+/- 1°C in the range of +5°C to +40°C +/- 2°C outside above range
Relative Humidity Measurement	
Operating range:	20% to 90%
Humidity resolution:	1%
Accuracy of humidity measurement:	+/- 5% rel. humidity in the range of 30%-80% at 20°C +/- 8% outside above range
Sensing cycle T/H:	approx. 60 seconds
Clock	
Radio controlled clock synchronization:	4 times daily (1:00 – 3:00 – 6:00 – 9:00)
Quartz clock accuracy:	+/- 30 seconds / month
Power	4 pcs UM-3 or “AA” 1.5V batteries
Dimensions / Weight	90 x 108 x 93 mm / 203g (without battery)

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